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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/628,875	07/28/2003	Richard Christopher DeCharms	27969-705	3884	
	7590 01/29/2007 SINI GOODRICH & RO	SATI	EXAMINER		
650 PAGE MIL	L ROAD	LAMPRECHT, JOEL			
PALO ALTO, O	CA 94304-1050	ART UNIT	PAPER NUMBER		
		3737			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	, MAIL DATE	DELIVERY MODE		
3 MOI	NTHS	01/29/2007	PAPER .		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary Display			<i>A</i>	Application	No.	Applicant(s)		
Examiner Joel M. Lamprecht Joel M. Depards of resply septidate under the providence of 37 CFR 1.784(b). In no event, however, may a ruply be timely filed H. Depards for raply is specified above, the maximum statutory proteon with pay and will expire 30th MONTHOR men the making date of this communication of the providence by the folic later than there morning about of this communication, even if timely filed, may reduce any secured patient term adjustment. See 37 CFR 1.794(b). Status 1) M. Responsive to communication(s) filed on 28 July 2003. 2a) This action is FINAL. 2b) M. This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.25 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) 1.25 is/are rejected to. 8) Claim(s) 1.25 is/are rejected to. 8) Claim(s) is/are allowed. 10 The drawing(s) filed on is/are: a) cacepted or b) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.12 11) The oath or declaration is objected to by t		Office Action Summary		10/628,875				
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Application/Control Number: 10/628,875

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6, 14-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Renshaw (US 20020019364 A1). Renshaw discloses a computer assisted method to diagnose a condition having a subject perform a behavior or have a perception adapted to activate a region or more of interest associated with a condition [0049], measuring activity of a ROI [0075], diagnosing the condition in response to the behavior, performing an intervention and repeating later to observe changes [0076-0078]. The measuring activity is performed by fMRI [0075], the measuring activity is made less than 10 seconds relative to when the activity is measured [0089], a pharmacological agent was administered [0075], a therapeutic method was also pursued, including providing images to the subject [0075, 0079, 0081, 0086, and 0087], images for diagnosis are produced while the instrument used for measurement remains positioned about the subject [0089], one of the regions of interest was primarily functioned to release a neuromodulatory substance from the list of dopamine, Ach, noradrenaline, serotonin and endogenous opiate [0075-0078 and 0080], the subject has one or more of ADD, depression, addiction, schizophrenia [0043], an image was shown to the subject [0087-0088], Software is provided to guide testing comprising logic to communicate

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instructions to a subject to perform a behavior or a first stimulus, logic for taking measurements of activity, and selecting a second behavior or stimulus based at least in part on brain activity, as well as logic for testing activity measurements and performing diagnosis of the subject [0087-0089] where determinations are performed in less than 10 seconds relative to the brain activity [0087].

3. Claims 1 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Toomim et al. (US 5,995,857). Toomim et al. disclose a computer assisted method to diagnose a condition having a subject perform a behavior or have a perception adapted to activate a region or more of interest associated with a condition (Col 2 Line 45-60), measuring activity of a ROI, diagnosing the condition in response to the behavior, performing an intervention and repeating later to observe changes (Col 1 Line 55 – Col 2 Line 15), software for guiding testing comprising logic for taking measurements of one or more ROIs and selecting a second behavior based in part on measured activity, and logic for communicating instructions with the subject (Col 4 Lines 15-38), the determinations are made in less than 10 seconds relative to when the brain activity measurement is taken (real time) with optical imaging (Col 1 Line 17-23, Col 2 Line 42-45, and Claim 1).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. Claims 7-13, 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toomim et al in view of Lai et al. (US 5,887,074) Toomim et al disclose measuring brain activity using optical sensing and providing feedback to a patient in real time based on measured or determined functions of brain activity in a ROI as disclosed above. Toomim et al does not explicitly disclose a functional MR imaging method to acquire information or the assessment of voxels in specific dimensions. Attention is then directed to the secondary reference by Liu et al. which generally demonstarates that voxel sizes can actively vary within an n-dimensional vector thereby teaching size variance including 1x1x1 and 5x5x5cm as common image processing techniques (CoI 3 Line 15-45, all of Column 5, and CoI 9 Lines 10-30). It would have been obvious to one having ordinary skill in the art at the time of the intention to have obtained measurements from volumes as in Liu et al. in the invention described by Toomim et al. to obtain high resolution real-time data of a patient to facilitate diagnosis as is known in the art.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joel M. Lamprecht whose telephone number is (571) 272-3250. The examiner can normally be reached on Monday-Friday 7:30AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JML 1/11/07

CLENI MANTIS MERCADER
SUPERVISORY PATENT EXAMINER